BEST PRACTICES FOR WATER QUALITY TRADING
JOINT REGIONAL AGREEMENT

Discussion Guide, May 28th, 2013

Discussion Guides are intended to provide definitions, context, analysis, and options for addressing various components of water quality trading programs (e.g. trading ratios, BMP quality standards) that will be addressed through interagency discussions and workshops.

Best Management Practices (BMPs) for trading

The following is a list of BMPs that are eligible or approved to generate credits in the states/programs listed along the top. Note that BMPs listed for Washington reflect BMPs with detailed guidance and are not necessarily eligible to generate credits. Please review those shown for your state for accuracy and completeness. Eligible practices for programs in the Midwest and Chesapeake Bay states are included as well. If there are any practices that you are interested in exploring that are missing from this list, please provide suggestions.

Water Quality Attribute	BMP Type	BMPs	Willamette Partnership	Oregon	Idaho	Ohio RB***	Maryland	Pennsylvania	Wisconsin	Washington
Temperature (kcal)	Structural	riparian forest buffer/restoration	X	X	--	--	--		--	
		flow aumentation		X*	--	--	--		--	
Nutrient (Nitrogen, Phosporus, Sediment)	Structural	riparian forest buffer/restoration	X	X			X	X		X[1,2]
		tree planting					X	X		
		livestock exclusion fencing	X	X		X	X[3]	X[3]		X[1]
		off-stream watering					X	X		X[1]
		streambank stabilization system							X	
		dregding and aquatic habitat restoration							X	
		animal waste management system					X	X		
		barnyard runoff control/loafing lot mgmt					X	X		
		sediment basins			X				X	
		underground outlet			X					
		sprinkler irrigation			X					
		microirrigation			X					

		surge irrigation			X						
		tailwater recovery			X						
		diversion								X	
		roof runoff structure								X	
		heavy use protection area				X					
		retirement of highly erodible land							X		
		wetland restoration			X		X		X	X	
	Management or Practice-based	vegetated treatment system								X	
		conservation easement								X	
		cover cropping	X	X			X	X	X	X	
		crop rotations	X	X	X						
		conservation tillage	X	X			X		X	X	
		filter strips	X**		X		X			X	
		rotational grazing						X⁴	X⁴		
		straw in furrows			X						
		nutrient management	X**		X		X		X	X	X²
		polyacrylamide			X						
		grass waterways				X				X	
		phytase feed additive							X		
		riparian grass buffer/restoration	X**					X	X		

* Accepted on a case-by-case basis where sufficient information and/or modeling exists.

** Methodologies and protocols are available, quantification method not yet approved by state agency.

***Ohio RB represents several states of the Ohio River Basin including Ohio, Indiana, and Kentucky.

[1] Occurs in combination with riparian forest restoration, livestock exclusion fencing, and off-stream watering. May need additional supporting actions.

[2] Occurs in combination with riparian forest restoration and nutrient management.

[3] Occurs with either off-stream watering or both off-stream watering and rotational grazing.

[4] Occurs in combination with off-stream watering and livestock exclusion fencing.